

IN THE CLAIMS:

1. (Original): A method for determining parameters needed to communicate with a remote node in a computer network, the method comprising:
 - compiling a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;
 - receiving a service request from a client;
 - looking up the queue pair number associated to the requested service; and
 - replying to the client, wherein the reply includes:
 - the address of the node hosting the requested service; and
 - the queue pair number associated with the requested service.
2. (Original): The method according to claim 1, further comprising registering the network nodes with a central server, wherein the central server contains the queue-pair-number map.
3. (Original): The method according to claim 1, further comprising initiating the network nodes with the queue-pair-number map.
4. (Original): The method according to claim 1, further comprising:
 - receiving a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;
 - associating a new queue pair number with a new dynamic instance of the requested service; and
 - returning a second reply to the client, wherein the second reply includes the new queue pair number.
5. (Original): A method for determining parameters needed to communicate with a remote node in a computer network, the method comprising:

associating a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;

receiving a service request from a client, wherein the request is addressed to the well-known queue pair number; and

replying to the client, wherein the reply contains attributes necessary for communication with the requested service.

6. (Original): The method according to claim 5, wherein the well-known queue pair number corresponds to all well-known ports in the node.

7. (Original): The method according to claim 5, wherein the well-known queue pair number corresponds to well-known ports which are specified as the least used well-known ports in the node.

8. (Original): The method according to claim 5, wherein the reply returned to the client includes a new queue pair number which differs from the well-known queue pair number, wherein the new queue pair number is used by the client for subsequent communication with the service.

9. (Original): A computer program product in a computer readable medium for use in a data processing system, for determining parameters needed to communicate with a remote node in a computer network, the computer program product comprising:

instructions for compiling a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;

instructions for receiving a service request from a client;

instructions for looking up the queue pair number associated to the requested service; and

instructions for replying to the client, wherein the reply includes:

the address of the node hosting the requested service; and

the queue pair number associated with the requested service.

10. (Original): The computer program product according to claim 9, further comprising instructions for registering the network nodes with a central server, wherein the central server contains the queue-pair-number map.

11. (Original): The computer program product according to claim 9, further comprising instructions for initiating the network nodes with the queue-pair-number map.

12. (Original): The computer program product according to claim 9, further comprising:
instructions for receiving a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;
instructions for associating a new queue pair number with a new dynamic instance of the requested service; and
instructions for returning a second reply to the client, wherein the second reply includes the new queue pair number.

13. (Original): A computer program product in a computer readable medium for use in a data processing system, for determining parameters needed to communicate with a remote node in a computer network, the computer program product comprising:
instructions for associating a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;
instructions for receiving a service request from a client, wherein the request is addressed to the well-known queue pair number; and
instructions for replying to the client, wherein the reply contains attributes necessary for communication with the requested service.

14. (Original): The computer program product according to claim 13, wherein the well-known queue pair number corresponds to all well-known ports in the node.

15. (Original): The computer program product according to claim 13, wherein the well-known queue pair number corresponds to well-known ports which are specified as the least used well-known ports in the node.

16. (Original): The computer program product according to claim 13, wherein the reply returned to the client includes a new queue pair number which differs from the well-known queue pair number, wherein the new queue pair number is used by the client for subsequent communication with the service.

17. (Original): A system for determining parameters needed to communicate with a remote node in a computer network, the system comprising:

- a compiler which compiles a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;

- a receiver which receives a service request from a client;

- a look-up component which looks up the queue pair number mapped to the requested service; and

- a response component which replies to the client, wherein the reply includes:

- the address of the node hosting the requested service; and

- the queue pair number associated with the requested service.

18. (Original): The system according to claim 17, further comprising:

- a second receiver which receives a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;

- a processing component which associates a new queue pair number with a new dynamic instance of the requested service; and

- a second response component which sends a second reply to the client, wherein the second reply includes the new queue pair number.

19. (Original): A system for determining parameters needed to communicate with a remote node in a computer network, the system comprising:

an associating component which associates a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;

a receiver which receives a service request from a client, wherein the request is addressed to the well-known queue pair number; and

a response component which sends a reply to the client, wherein the reply contains attributes necessary for communication with the requested service.